J. Electroanal. Chem., 351 (1993) 351
Elsevier Sequoia S.A., Lausanne

Author index

Aggour, M. 159
Aldaz, A. 299
Alpatova, N.M. 271
Arvía, A.J. 65
Athey, D. 185
Avramov-Ivic, M. 285

Ba, B. 337
Barsch, U. 169
Bartlett, P.N. 245
Beck, F. 169
Beden, B. 285
Bender, M.A. 29
Bethell, D. 259
Birss, V.I. 227
Broka, K. 199
Bruce Lennox, R. 137

Cachet, H. 337
Caridade Costa, J.M. 259
Castro, E.A. 65
Chakravarti, N. 57
Chen, X. 91
Clavilier, J. 299
Columbia, M.R. 207
Crabtree, A.M. 207

D'Aprano, G. 145

Evans, G.P. 185

Feliu, J.M. 299
Fotouhi, B. 337
Fujishima, A. 105

Glezer, V. 199
Goledzinowski, M. 227
Gorochov, O. 337

Hager, H.J. 185
Hahn, F. 285
Ho, W.O. 185
Hudnik, V. 81

Iida, K. 105
Itoh, K. 105

Jeyashri, B. 259
Jiang, Z. 321

Kikuchi, E. 105
Kitamura, N. 343
Korell, U. 137
Korzeniewski, C. 329
Kruijt, W.S. 115

Lamy, C. 285
Leclerc, M. 145
Léger, J.-M. 285
Leiva, E.P.M. 65
Levi, M.D. 271
Lewerenz, H.J. 159
Llorca, M.J. 299
Lukevics, E. 199
Lyons, C.H. 245
Lyons, M.E.G. 245

Masuhara, H. 343
McNeil, C.J. 185
Michaelis, R. 169
Michas, A. 245
Mullen, W.H. 185

Nie, L. 91

Ogorevc, B. 81
Olivera, P.A.P. 65
Ovsyannikova, E.V. 271

Paulissen, V.B. 329
Pejovnik, S. 81

Sebastian, K.L. 57
Sekiguchi, A. 343
Shimo, N. 343
Sluyters, J.H. 115
Sluyters-Rehbach, M. 115
Stafiej, J. 1
Stone, H.A. 29
Stradiņš, J. 199
Sugimura, H. 343

Tavčar, G. 81
Thiel, P.A. 207

Uchida, T. 343

Vorotyntsev, M.A. 271

Wei, W. 91

Xiang, Y. 321
Xie, Q. 91

Yao, S. 91

Zelčāns, G. 199
Zhang, X. 321
Zotti, G. 145

J. Electroanal. Chem., 351 (1993) 353–357
Elsevier Sequoia S.A., Lausanne

Subject index

Acidic medium
Electrochemical structure-sensitive behaviour of irreversibly adsorbed palladium on Pt(100), Pt(111) and Pt(110) in an acidic medium (Llorca et al.) 299
Adiabaticity
Adiabaticity in electrochemical electron transfer: a perspective from a diffusion-reaction equation approach (Sebastian, Chakravarti) 57
Adsorption
Electrochemical structure-sensitive behaviour of irreversibly adsorbed palladium on Pt(100), Pt(111) and Pt(110) in an acidic medium (Llorca et al.) 299
Alkali metal cations
Electrochemical behaviour and complexation with alkali metal cations of reduced synthetic macrocyclic compounds of the crown ether type attached to an anthraquinone unit (Caridade Costa et al.) 259
Alkaline medium
Adsorption of glycerol on platinum in alkaline medium: effect of the electrode structure (Avramov-Ivic et al.) 285
Amorphous films
Photochromism and photoelectrochemistry of amorphous and polycrystalline WO_3 films (Kikuchi et al.) 105
Aqueous media
Corrosion of conducting polymers in aqueous media (Beck et al.) 169
Atomic oxygen
Chemical reactions between atomic oxygen and formic acid on Pt(111) (Columbia et al.) 207

Biosensor
A sulphite biosensor. Coupling of sulphite oxidase (EC 1.8.3.1) to a TTFTCNQ electrode (Korell, Bruce Lennox) 137
Bisulfate adsorption
IR spectroscopy as a probe of bisulfate absorption at platinum electrodes under aqueous electrochemical conditions: elimination of bulk interference by using a thin layer flow cell (Paulissen, Korzeniewski) 329
Bulk interference
IR spectroscopy as a probe of bisulfate absorption at platinum electrodes under aqueous electrochemical conditions: elimination of bulk interference by using a thin layer flow cell (Paulissen, Korzeniewski) 329

Carbon monoxide
Semi-empirical calculations of the vibrational frequency of carbon monoxide adsorbed on noble metal single-crystal surfaces (Olivera et al.) 65
Charge-transfer mechanism
Mechanism of cathodic reactions at electron-conducting polymer films: electroreduction of chloranil and tetracyanoquinodimethane at a poly-3-methylthiophene-coated glassy carbon electrode (Levi et al.) 271
Chemisorption
Semi-empirical calculations of the vibrational frequency of carbon monoxide adsorbed on noble metal single-crystal surfaces (Olivera et al.) 65
Chloranil
Mechanism of cathodic reactions at electron-conducting polymer films: electroreduction of chloranil and tetracyanoquinodimethane at a poly-3-methylthiophene-coated glassy carbon electrode (Levi et al.) 271
Complexation
Electrochemical behaviour and complexation with alkali metal cations of reduced

synthetic macrocyclic compounds of the crown ether type attached to an anthraquinone unit (Caridade Costa et al.) 259
Conducting polymers
Steric and electronic effects in methyl and methoxy substituted polyanilines (D'Aprano et al.) 145
Corrosion of conducting polymers in aqueous media (Beck et al.) 169
Copper
Electrochemical behaviour of a Cu(II)–Cu(III) couple: cyclic voltammetry and kinetic parameters at a platinum electrode in a strong alkaline medium and in the presence of tellurate anions (Ogorevc et al.) 81
Corrosion
Corrosion of conducting polymers in aqueous media (Beck et al.) 169
Crown ethers
Electrochemical behaviour and complexation with alkali metal cations of reduced synthetic macrocyclic compounds of the crown ether type attached to an anthraquinone unit (Caridade Costa et al.) 259
Cyclic voltammetry
Electrochemical behaviour of a Cu(II)–Cu(III) couple: cyclic voltammetry and kinetic parameters at a platinum electrode in a strong alkaline medium and in the presence of tellurate anions (Ogorevc et al.) 81

Differential cyclic voltabsorptometry
Differential linear sweep and differential cyclic voltabsorptometry in a long-path-length spectroelectrochemical cell: Eqr, Eir and ErCi′ (Xie et al.) 91
Differential linear sweep voltabsorptometry
Differential linear sweep and differential cyclic voltabsorptometry in a long-path-length spectroelectrochemical cell: Eqr, Eir and ErCi′ (Xie et al.) 91
Diffusion-controlled electrodeposition
The diffusion-controlled growth of an assembly of mercury spheres on a conducting substrate. A combined study by electrochemical and light scattering methods (Kruijt et al.) 115
Diffusion-reaction equation
Adiabaticity in electrochemical electron transfer: a perspective from a diffusion-reaction equation approach (Sebastian, Chakravarti) 57

EHMO method
Semi-empirical calculations of the vibrational frequency of carbon monoxide adsorbed on noble metal single-crystal surfaces (Olivera et al.) 65
Electrochemical
Adsorption of glycerol on platinum in alkaline medium: effect of the electrode structure (Avramov-Ivic et al.) 285
Electrochemical behaviour
Electrochemical behaviour of a Cu(II)–Cu(III) couple: cyclic voltammetry and kinetic parameters at a platinum electrode in a strong alkaline medium and in the presence of tellurate anions (Ogorevc et al.) 81
Electrochemical characterization
Electrochemical behaviour and complexation with alkali metal cations of reduced synthetic macrocyclic compounds of the crown ether type attached to an anthraquinone unit (Caridade Costa et al.) 259
Electrochemical electron transfer
Adiabaticity in electrochemical electron transfer: a perspective from a diffusion-reaction equation approach (Sebastian, Chakravarti) 57
Electrochemical oxidation
Electrochemical oxidation of silatranes (Broka et al.) 199
Electrode reaction mechanisms
Differential linear sweep and differential cyclic voltabsorptometry in a long-path-length spectroelectrochemical cell: Eqr, Eir and ErCi′ (Xie et al.) 91
Electron-conducting polymer
Mechanism of cathodic reactions at electron-conducting polymer films: electroreduction of chloranil and tetracyanoquinodimethane at a poly-3-methylthiophene-coated glassy carbon electrode (Levi et al.) 271
Electron energy loss spectroscopy
Chemical reactions between atomic oxygen and formic acid on Pt(111) (Columbia et al.) 207
Electronic effects
Steric and electronic effects in methyl and methoxy substituted polyanilines (D'Aprano et al.) 145
Electroreduction
Mechanism of cathodic reactions at electron-conducting polymer films: electroreduc-

tion of chloranil and tetracyanoquinodimethane at a poly-3-methylthiophene-coated glassy carbon electrode (Levi et al.) 271
Enzyme electrodes
Mediatorless horseradish peroxidase enzyme electrodes based on activated carbon: potential application to specific binding assay (Ho et al.) 185
Enzymes
A sulphite biosensor. Coupling of sulphite oxidase (EC 1.8.3.1) to a TTFTCNQ electrode (Korell, Bruce Lennox) 137
Etching
On the origin of photocurrent oscillation at Si electrodes (Lewerenz, Aggour) 159

Flatband potential
pH and redox potential dependence of the flatband potential of n-type GaAs in methanol (Ba et al.) 337
Fluctuating pore model
On the origin of photocurrent oscillation at Si electrodes (Lewerenz, Aggour) 159
Food additives
A sulphite biosensor. Coupling of sulphite oxidase (EC 1.8.3.1) to a TTFTCNQ electrode (Korell, Bruce Lennox) 137
Formic acid
Chemical reactions between atomic oxygen and formic acid on Pt(111) (Columbia et al.) 207

GaAs
pH and redox potential dependence of the flatband potential of n-type GaAs in methanol (Ba et al.) 337
Generator fuel
Adsorption of glycerol on platinum in alkaline medium: effect of the electrode structure (Avramov-Ivic et al.) 285
Glycerol
Adsorption of glycerol on platinum in alkaline medium: effect of the electrode structure (Avramov-Ivic et al.) 285

pH
pH and redox potential dependence of the flatband potential of n-type GaAs in methanol (Ba et al.) 337

Horseradish peroxidase
Mediatorless horseradish peroxidase enzyme electrodes based on activated carbon: potential application to specific binding assay (Ho et al.) 185
Hydrated oxide layers
Heterogeneous redox catalysis at hydrated oxide layers (Lyons et al.) 245
Hydrogen peroxide
Mediatorless horseradish peroxidase enzyme electrodes based on activated carbon: potential application to specific binding assay (Ho et al.) 185
Hydrous platinum oxide films
The unusual reduction behavior of thin, hydrous platinum oxide films (Birss, Goledzinowski) 227

Ideal polarizable interface
On statistical thermodynamics of the ideal polarizable interface (Stafiej) 1
Integral equation
An integral equation approach to the study of the steady state current at surface microelectrodes (Bender, Stone) 29
Interdigited electrode arrays
Photoelectrolysis of water on a titanium dioxide/platinum microelectrode array (Uchida et al.) 343
IR spectroscropy
IR spectroscopy as a probe of bisulfate absorption at platinum electrodes under aqueous electrochemical conditions: elimination of bulk interference by using a thin layer flow cell (Paulissen, Korzeniewski) 329

Kinetic parameters
Electrochemical behaviour of a Cu(II)–Cu(III) couple: cyclic voltammetry and kinetic parameters at a platinum electrode in a strong alkaline medium and in the presence of tellurate anions (Ogorevc et al.) 81

Light scattering
The diffusion-controlled growth of an assembly of mercury spheres on a conducting substrate. A combined study by electrochemical and light scattering methods (Kruijt et al.) 115

Macrocycles
Electrochemical behaviour and complexation with alkali metal cations of reduced

synthetic macrocyclic compounds of the crown ether type attached to an anthraquinone unit (Caridade Costa et al.) 259
Mathematical model
The diffusion-controlled growth of an assembly of mercury spheres on a conducting substrate. A combined study by electrochemical and light scattering methods (Kruijt et al.) 115
Mercury spheres
The diffusion-controlled growth of an assembly of mercury spheres on a conducting substrate. A combined study by electrochemical and light scattering methods (Kruijt et al.) 115
Methanol
pH and redox potential dependence of the flatband potential of n-type GaAs in methanol (Ba et al.) 337

Noble metals
Semi-empirical calculations of the vibrational frequency of carbon monoxide adsorbed on noble metal single-crystal surfaces (Olivera et al.) 65
Nucleation and growth mechanisms
The diffusion-controlled growth of an assembly of mercury spheres on a conducting substrate. A combined study by electrochemical and light scattering methods (Kruijt et al.) 115

Organic conducting salts
A sulphite biosensor. Coupling of sulphite oxidase (EC 1.8.3.1) to a TTFTCNQ electrode (Korell, Bruce Lennox) 137

Palladium
Electrochemical structure-sensitive behaviour of irreversibly adsorbed palladium on Pt(100), Pt(111) and Pt(110) in an acidic medium (Llorca et al.) 299
Photochromism
Photochromism and photoelectrochemistry of amorphous and polycrystalline WO_3 films (Kikuchi et al.) 105
Photocurrent oscillation
On the origin of photocurrent oscillation at Si electrodes (Lewerenz, Aggour) 159
Photoelectrochemistry
Photochromism and photoelectrochemistry of amorphous and polycrystalline WO_3 films (Kikuchi et al.) 105
Photoelectrolysis
Photoelectrolysis of water on a titanium dioxide/platinum microelectrode array (Uchida et al.) 343
Photothermal spectroscopy
Electrochemical behaviour of polyaniline: An in situ photothermal spectroscopy study (Jiang et al.) 321
Platinum
Mediatorless horseradish peroxidase enzyme electrodes based on activated carbon: potential application to specific binding assay (Ho et al.) 185
Electrochemical structure-sensitive behaviour of irreversibly adsorbed palladium on Pt(100), Pt(111) and Pt(110) in an acidic medium (Llorca et al.) 299
IR spectroscopy as a probe of bisulfate absorption at platinum electrodes under aqueous electrochemical conditions: elimination of bulk interference by using a thin layer flow cell (Paulissen, Korzeniewski) 329
Platinum oxide film reduction
The unusual reduction behavior of thin, hydrous platinum oxide films (Birss, Goledzinowski) 227
Polyaniline
Electrochemical behaviour of polyaniline: An in situ photothermal spectroscopy study (Jiang et al.) 321
Polyanilines
Steric and electronic effects in methyl and methoxy substituted polyanilines (D'Aprano et al.) 145
Polycrystalline films
Photochromism and photoelectrochemistry of amorphous and polycrystalline WO_3 films (Kikuchi et al.) 105
Polypyrrole
Corrosion of conducting polymers in aqueous media (Beck et al.) 169
Polythiophene
Corrosion of conducting polymers in aqueous media (Beck et al.) 169

Reaction kinetics
Differential linear sweep and differential cyclic voltabsorptometry in a long-path-length spectroelectrochemical cell: Eqr, Eir and ErCi' (Xie et al.) 91

Corrosion of conducting polymers in aqueous media (Beck et al.) 169
Redox catalysis
Heterogeneous redox catalysis at hydrated oxide layers (Lyons et al.) 245
Redox potential
pH and redox potential dependence of the flatband potential of n-type GaAs in methanol (Ba et al.) 337

Si electrodes
On the origin of photocurrent oscillation at Si electrodes (Lewerenz, Aggour) 159
Silatranes
Electrochemical oxidation of silatranes (Broka et al.) 199
Single-crystal surfaces
Semi-empirical calculations of the vibrational frequency of carbon monoxide adsorbed on noble metal single-crystal surfaces (Olivera et al.) 65
Solar cells
On the origin of photocurrent oscillation at Si electrodes (Lewerenz, Aggour) 159
Spectroelectrochemistry
Differential linear sweep and differential cyclic voltabsorptometry in a long-path-length spectroelectrochemical cell: Eqr, Eir and ErCi′ (Xie et al.) 91
Statistical thermodynamics
On statistical thermodynamics of the ideal polarizable interface (Stafiej) 1
Steady state current
An integral equation approach to the study of the steady state current at surface microelectrodes (Bender, Stone) 29
Steric effects
Steric and electronic effects in methyl and methoxy substituted polyanilines (D'Aprano et al.) 145
Sulphite detection
A sulphite biosensor. Coupling of sulphite oxidase (EC 1.8.3.1) to a TTFTCNQ electrode (Korell, Bruce Lennox) 137
Surface microelectrodes
An integral equation approach to the study of the steady state current at surface microelectrodes (Bender, Stone) 29

Tellurate anions
Electrochemical behaviour of a Cu(II)–Cu(III) couple: cyclic voltammetry and kinetic parameters at a platinum electrode in a strong alkaline medium and in the presence of tellurate anions (Ogorevc et al.) 81
Tetracyanoquinodimethane
Mechanism of cathodic reactions at electron-conducting polymer films: electroreduction of chloranil and tetracyanoquinodimethane at a poly-3-methylthiophene-coated glassy carbon electrode (Levi et al.) 271
Thermal desorption
Chemical reactions between atomic oxygen and formic acid on Pt(111) (Columbia et al.) 207
Thin layer flow cell
IR spectroscopy as a probe of bisulfate absorption at platinum electrodes under aqueous electrochemical conditions: elimination of bulk interference by using a thin layer flow cell (Paulissen, Korzeniewski) 329
Titanium dioxide/platinum
Photoelectrolysis of water on a titanium dioxide/platinum microelectrode array (Uchida et al.) 343
TTFTCNQ
A sulphite biosensor. Coupling of sulphite oxidase (EC 1.8.3.1) to a TTFTCNQ electrode (Korell, Bruce Lennox) 137

Vibrational frequencies
Semi-empirical calculations of the vibrational frequency of carbon monoxide adsorbed on noble metal single-crystal surfaces (Olivera et al.) 65

WO_3
Photochromism and photoelectrochemistry of amorphous and polycrystalline WO_3 films (Kikuchi et al.) 105